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Figure 1. DNA sequences of the cDNA clone encoding the protein, ALP.

Title: ALLERGENIC LATEX PROTEIN
Inventors:Siti Arija Mad Arif, et al
Appl. No.
Docket No.: SIRIM-007XX

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---1---1---1---1---1---1---1---1---1---1---1---1---1---1---1---1---1---

DNA: tcgtccacggttgcacatctattctgtcaagtattcttattcagtgagccag	918
--l----l----l----l----l----l----l----l----l----l----	
DNA: aaaaacacacggttcgagttccacttataacatgttgtggctacggaggaa	969
-l----l----l----l----l----l----l----l----l----l----	
DNA: agtacaatttttagtgttactgctccatgtggagatacagttacagcagacg	1020
l----l----l----l----l----l----l----l----l----l----	
DNA: acggcaccaaaatagttgtgggttcatgtgcttgccttcagttcgagtaa	1071
----l----l----l----l----l----l----l----l----l----	
DNA: attgggatggagctcactacactgaagctgccaatgaatatttttcgacc	1122
---l----l----l----l----l----l----l----l----l----	
DNA: agatttctacaggaggcctctctgatccccctgttccattgaatatggcat	1173
--l----l----l----l----l----l----l----l----l----	
DNA: gtcataaaaactgaatcattgaggacattgcctctgtataggttatatgaa	1224
-l----l----l----l----l----l----l----l----l----	
DNA: agtgcttgctgaaagcccgctaataaaatgaggaataataataatgaga	1275
1----l----l----l----l----l----l----l----l----	
DNA: aaccattgattatgttaggattcacttgcatttatcataataatctatct	1326
----l----l----l----l----l----l----l----l----	
DNA: gttgtatataacaacagttgtatgaaatagttcttgcataataagacttgc	1377
---l----l----l----l----l----l----l----l----	
DNA: tttctccggttcccta 1394	
--l----l----l----	

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Figure 2. Amino acid sequence derived from the translation of the cDNA clone of the ALP.

AGALT LGFC FHF MEF PET NNN PI ITLS FLL CMS LAY ASET CDF P A IF FN F	50
GDS NSDTGGKAA AFY PLN P PY GET FF HRST GRY SDG RL I IDF IA E SF NLP	100
YLSPY LSS LG S NF KH GAD F ATAG STIKL PTI I PAH GGF SPF Y LDV Q Y SQ	150
FRQFIPRSQFIRE TGGI FAEL VPEE YYFE KAL YT FDI QN DLTE GFL NLT	200
VEEV NATVPDLVNSFSANVKKIYDLGARTFWIHNTGPIGCLSFILTYFPW	250
AEKDSAGCAKAYNEVAQHF NHKLKE IVAQLRKDLPLATF VHVDIYSVKYS	300
LFSEPEKHGF EFPLITCCGYGGKYNFSVTAPCGDTVTADDGT KIVVGSCA	350
CPSVRVNWDGAHYTEAANEYFFDQISTGAFSDPPVPLNMACHKTESLRTL	400
ASV*VI*KCFAESPLIK*GIIINEKPLIMLGFTWFLS**SICCIYNSCMK	450
*FLVIKTCLSPVSL	
----1----1----	464

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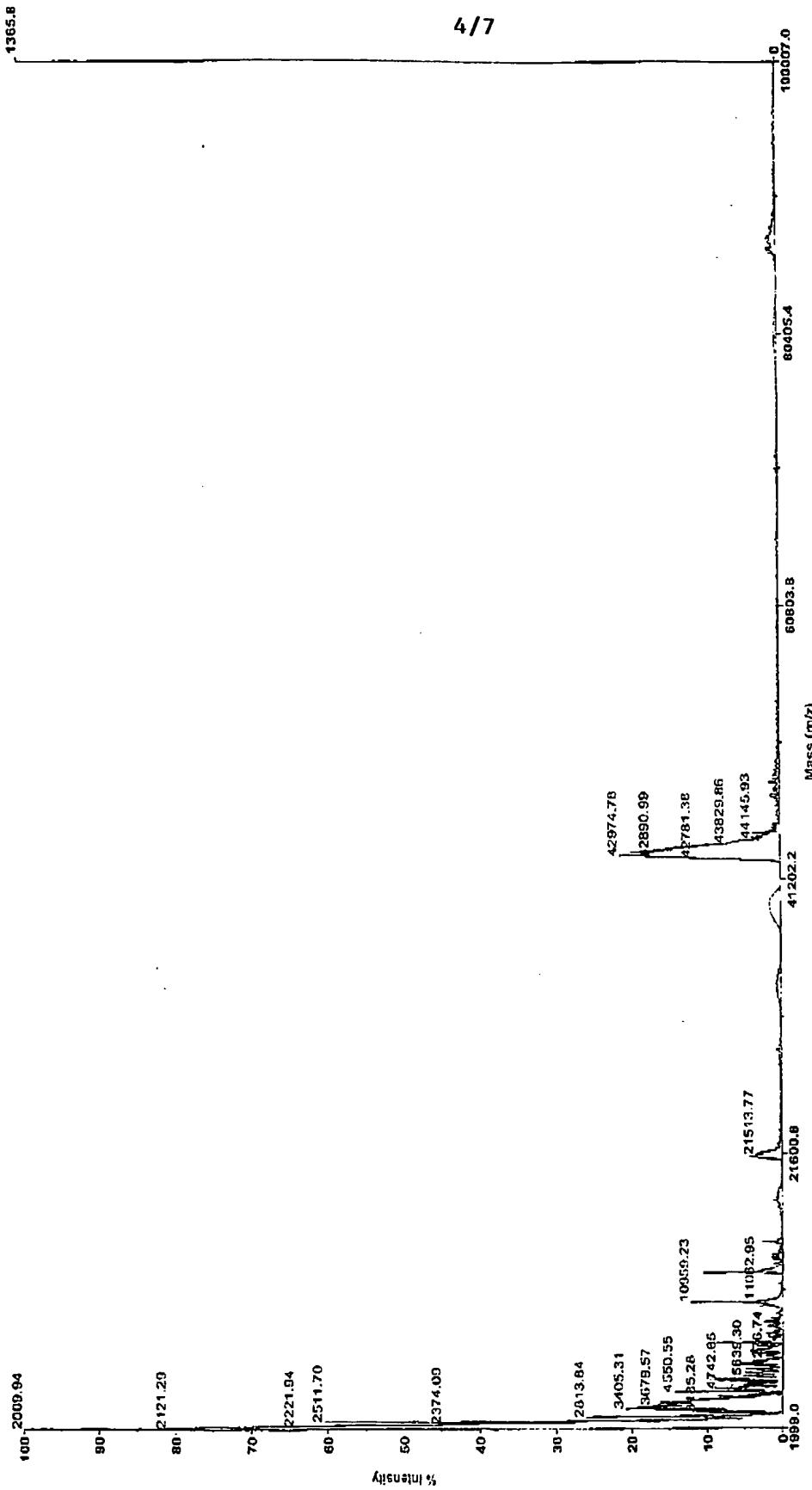


Figure 3. Determination of the molecular weight of ALP by matrix-assisted laser desorption ionization mass spectrometry (MALDI-MS) following liquid chromatography.

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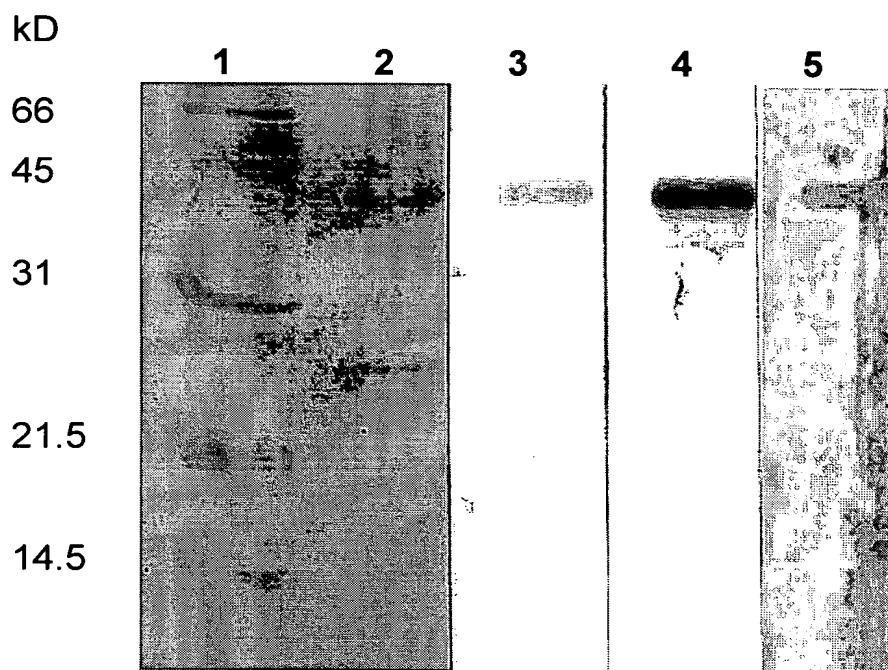


Figure 4. Western blot of ALP . Lane 1) molecular weight marker stained with Coomassie blue; 2) ALP stained with Coomassie blue; 3) binding of immunoglobulin IgE to the ALP, indicating that the protein is allergenic; 4) binding of polyclonal antibodies to the ALP; 5) binding of a monoclonal antibodies to the ALP.

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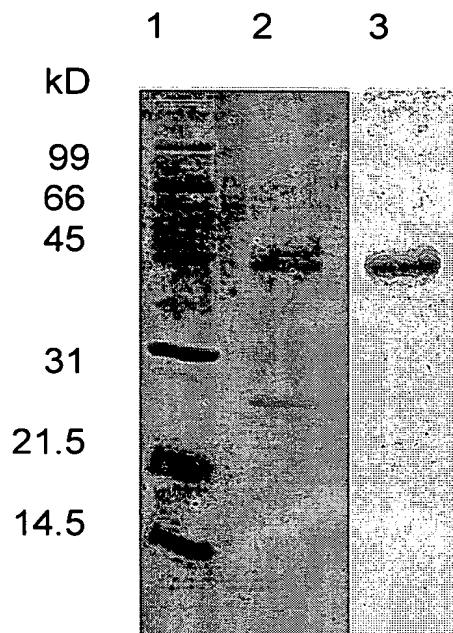


Figure 5. Western blot of ALP and the detection of the presence of carbohydrate associated with the protein, indicating that the protein is glycosylated. Lane 1) molecular weight marker stained with Coomassie blue; 2) ALP stained with Coomassie blue; 3) positive reaction to the glycosylation test.

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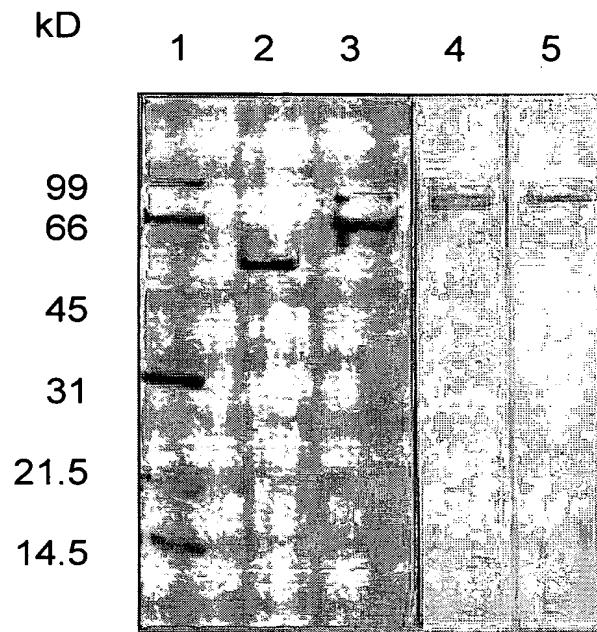


Figure 6. Western blot of the recombinant Maltose Binding Protein (MBP)-ALP fusion protein after separation by SDS-PAGE. Lane 1) molecular weight marker stained with Coomassie blue; 2) Maltose binding protein (MBP) stained with Coomassie blue; 3) Recombinant ALP protein stained with Coomassie Blue; 4) Binding of monoclonal antibody developed against native ALP and 5) Binding of polyclonal antibodies developed against native ALP.